

## MONITOR/PIEZOMETER WELL

FILING FEE \$10.00

## ARIZONA DEPARTMENT OF WATER RESOURCES

## OPERATIONS DIVISION

500 NORTH THIRD STREET

PHOENIX, ARIZONA 85004 (602) 417-2470

## NOTICE OF INTENTION TO DRILL MONITOR/PIEZOMETER WELL

## MONITOR/PIEZOMETER WELL

FILING FEE \$10.00

MAR 31 1995

0526-5

Section § 45-596, Arizona Revised Statutes provide: Prior to drilling a monitor or piezometer well, a Notice of Intention to Drill shall be filed with the Department.

## 1. WELL LOCATION:

4 N 90°W 33  
Township Range Section

NE 1/4 NW 1/4 NW 1/4  
10 ACRE 40 ACRE 160 ACRE

## 2. Position location of the well on the land:

Latitude 33 0 3 15 "

Longitude 111 0 26 15 "

## 3. County: PINAL

## 4. Owner of the land of wellsite:

MAGMA COPPER COMPANY  
Name  
14605 WEST HUNT HIGHWAY  
Address  
FLORENCE AZ 85232  
City State Zip

## 5. Lessee of the land of wellsite:

Name  
Address  
City State Zip

## 6. Owner of well:

MAGMA COPPER COMPANY  
Name  
14605 WEST HUNT HIGHWAY  
Address  
FLORENCE AZ 85232  
City State Zip

## 7. Consulting Firm: BROWN AND CALDWELL

Contact Person: STEVE MELLON

Phone: (602) 222-4445

## 8. Purpose of well drilled pursuant to this notice

Monitor X

Piezometer

## 9. If for deepening or modifying, Well Registration Number

55-

## 10. Construction will start:

APRIL 1995  
Month Day Year

## 11. Period well will remain in

use / Months/Years

## 12. For monitoring wells, is pump equipment to be installed?

Yes No X

(a) If yes, design pump capacity

(b) What use will be made of the water

## 13. Drilling firm:

BOYLES BROTHERS DRILLING  
Name  
6527 W. NORTHVIEW AVE.  
Address  
GLENDALE AZ 85301  
City State Zip

DWR License No. 28

CLASS A-04 076-386-002  
ROC License classification

## 14. Is the proposed wellsite within 100 feet of a septic tank system, sewage disposal area, landfill, hazardous waste facility, storage area of hazardous material or petroleum storage areas and tanks?

Yes No X

## 16. Proposed method of abandonment of well after project is completed: ACCORDING TO REGULATION

MAR 23 1995 R-12-15-816

## 17. Is this well to monitor existing contamination? No Potential contamination No Please explain:

## GENERAL INSTRUCTIONS

- Fill out this form in DUPLICATE and send WITH \$10.00 FEE to 500 NORTH THIRD STREET, PHOENIX, AZ 85004
- For specific instructions, limitations and conditions, see the reverse side of this form.
- Must be signed by land owner or lessee.
- Section §45-596(D), provides that the Director shall determine that all information required on form has been submitted. If not, the person filing will be notified and the drilling, deepening, or modification of the well may not proceed.

I state that Notice is filed in compliance with Section § 45-596 and is complete and correct to the best of my knowledge and belief and that I understand the conditions set forth on the reverse side of this form.

Typed or Printed Name

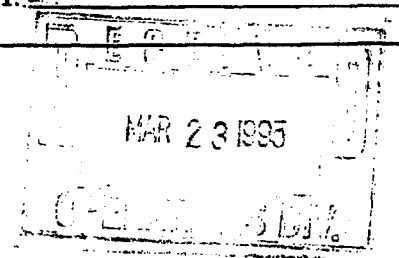
Signature [ ] Land Owner [ ] Lessee of wellsite

Date

18. If construction plans have been coordinated with Arizona Department of Environmental Quality, who is the agency contact? \_\_\_\_\_  
 If construction plans have been coordinated with Arizona Department of Water Resources, who is the agency contact? \_\_\_\_\_
19. WELL CONSTRUCTION PLAN
- a) Drilling method (mud rotary, hollow-stem auger, etc.) MUD ROTARY
- b) Borehole diameters: 1 3/4 inches from 0 feet to 20 feet.  
8 3/4 inches from 20 feet to 895 feet.
- c) Casing materials (PVC, steel, hollow-stem auger, etc.)  
 material STEEL diameter 9 5/8 inches from 0 feet to 20 feet  
 material PVC SCHD 80 diameter 4 inches from 20 feet to 835 feet
- d) Method of sealing at reductions \_\_\_\_\_
- e) Annular seal materials (cement, grout, etc.); method of placement (tremied, circulated)  
 material CEMENT GROUT method TREMIE from 0 feet to 20 feet  
 material BENTONITE GROUT method TREMIE from 20 feet to 825 feet
- f) Filter packs (state material):  
 material COLORADO SILICA SAND #6-9 MESH from 825 feet to 895 feet  
 material \_\_\_\_\_ from \_\_\_\_\_ feet to \_\_\_\_\_ feet
- g) Perforations or screen specifications:  
 type 1.080 INCH SLOT PVC SCHD 80 from 835 feet to 885 feet  
 type \_\_\_\_\_ from \_\_\_\_\_ feet to \_\_\_\_\_ feet
- h) Method of well development (bail, air lift, surge) AIR LIFT AND JETTING
- i) Will surface or conductor casing extend above grade: Yes \_\_\_\_\_ No X
20. Include detailed construction diagram showing expected water depth in feet below land surface, and details of vault, if specified.

### CONDITIONS

- I. Construction and abandonment standards for all wells shall be in accordance with A.A.C. R12-15-811 and R12-15-816.
- II. Drilling of the well shall be completed within one (1) year after the date of Notice.
- III. A Well Driller Report, is required within 30 days of completion of drilling. A Completion Report, is required to be filed with the Department within 30 days after installation of pump equipment for monitor wells.
- IV. Pump equipment may not be installed on a well drilled for piezometer purposes. If a monitor well is pumped, pumping is limited to the maximum amount required for monitor purposes, but in no case may exceed 35 gallons per minute and an annual volume of 10 acre feet total.
- V. A.A.C. Rule R12-15-811.H.2, requires that: "A monitor well shall be identified as such on the vault cover or at the top of the steel casing. Identification information will include well registration number."
- VI. Special construction standards required pursuant to A.A.C. Rule R12-15-821: \_\_\_\_\_



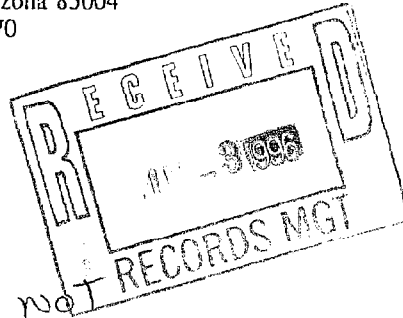
**ARIZONA DEPARTMENT OF WATER RESOURCES**

500 North 3rd Street, Phoenix, Arizona 85004

Telephone (602) 417-2470

Fax (602) 417-2401

MAY 1, 1996



FIFE SYMINGTON  
Governor

RITA P. PEARSON  
Director

D 040 090 33 B B A WR 549179  
MAGMA COPPER CO

LOG  
12

*Did not  
Drill*

14605 W HUNT HWY  
FLORENCE

AZ 85232

36C

Dear Well Driller:

The Department of Water Resources issued drilling authority one year ago for the well referenced by the file and registration number as indicated on the above label. To date, our records show that this well has not been drilled.

If this well has been drilled, Arizona Revised Statute §45-600 requires that the driller furnish a complete and accurate **Well Driller Report** (log) within thirty (30) days of concluding drilling.

If this well has been drilled, the file needs the above mentioned report to bring the well into compliance with the law, and you should ensure that this is done.

If you have not drilled this well, but it is your intention to do so in the future, this is to advise you that the well owner must refile a **Notice of Intent to Drill** in order to obtain authority to commence drilling.

Your immediate assistance is appreciated. If you have any questions, or need further information, please contact Carlane Stephan at (602) 417-2470.

Sincerely,

Creola Lasky  
Supervisor, Records Management Unit

**CANCELLED**

DWR-55-60B-11/94(Rev.)  
12-month letter

**ENTERED JUN 13 1996**

**ARIZONA DEPARTMENT OF WATER RESOURCES  
GROUNDWATER MANAGEMENT SUPPORT SECTION**

500 North Third Street, Phoenix, Arizona 85004-3903  
Phone (602) 417-2470 Fax (602) 417-2422

**REQUEST FORM TO CHANGE WELL INFORMATION  
OWNERSHIP \* DRILLER \* VARIANCE**

Please complete the appropriate section of this request form and return to the above address with applicable fee.  
**NOTE:** A.R.S. § 45-593.C requires that the Department be notified of change of well ownership and that the new owner is required to keep the Department's Well Registration records current and accurate. Well data and ownership changes must be submitted within thirty days after changes take place.

**SAVE THIS FORM TO REPORT FUTURE CHANGES IN OWNERSHIP, CHANGES IN ADDRESS, OR CHANGE IN WELL DATA SUCH AS PUMP CAPACITY, CORRECTION OF LEGAL DESCRIPTION, CHANGE OF WELL DRILLER AND AMENDING INFORMATION PREVIOUSLY FILED.**

**1. CHANGE OF WELL INFORMATION: (NO FEE REQUIRED)**

**NOTE:** If the location of the proposed well changes after drilling authority has been issued, attach a \$10.00 reissue fee for each well.

WELL REGISTRATION NO. 55- 549179 FILE NO: D(4-9)33 BBA

If known, I/We request the following well information be changed: \_\_\_\_\_

NAME CHANGE ONLY

*Cancelled*  
*4/95*

Date \_\_\_\_\_ Signature of Current Well Owner \_\_\_\_\_

**2. STATEMENT OF CHANGE OF WELL OWNERSHIP: (\$10.00 FEE REQUIRED)**

**NOTE:** If this change consists of more than one well and the names are common: attach a \$10.00 fee. Otherwise, each well requires a separate fee of \$10.00.

I, \_\_\_\_\_, state that I am the Previous/New Owner of the well described below:

$\frac{1}{4}$   $\frac{1}{4}$   $\frac{1}{4}$  of Section \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_  
10 Acre 40 Acre 160 Acre

Well Registration No. 55- See attached File No.: \_\_\_\_\_ (if known)

Magma Copper Company  
PRINT Previous Owner's Name

BHP Copper Inc.  
PRINT New Owner's Name

7400 North Oracle Road, Suite 200  
Mailing Address

7400 North Oracle Road, Suite 200  
Mailing Address

Tucson Arizona 85704  
City State Zip

Tucson Arizona 85704  
City State Zip

520-575-5600  
Telephone Number

520-575-5600  
Telephone Number

Signature of Previous/New Well Owner By: [Signature]  
Title: Land Manager

Date x 4-23-98

*MAC*

**ARIZONA DEPARTMENT OF WATER RESOURCES  
GROUNDWATER MANAGEMENT SUPPORT SECTION**

500 North Third Street, Phoenix, Arizona 85004-3903

Phone (602) 417-2470 Fax (602) 417-2422

**3. REQUEST TO CHANGE WELL DRILLER     \$10.00 FEE REQUIRED FOR EACH WELL**

This request must be received by this Department and the Drill Card issued to the new drilling firm prior to the drilling or completion of any well.

Well Registration No. 55- \_\_\_\_\_ File No: \_\_\_\_\_

\_\_\_\_\_  
Original Well Driller

\_\_\_\_\_  
New Well Driller

\_\_\_\_\_  
Mailing Address

\_\_\_\_\_  
Mailing Address

\_\_\_\_\_  
Telephone Number

\_\_\_\_\_  
Telephone Number

\_\_\_\_\_  
ADWR License Number

\_\_\_\_\_  
ADWR License Number

\_\_\_\_\_  
R.O.C. License Category

\_\_\_\_\_  
R.O.C. License Category

\_\_\_\_\_  
Typed or Printed Name of Well Owner

\_\_\_\_\_  
Signature of Well Owner

\_\_\_\_\_  
Date

The fee charge for well ownership and reissue of drill card is authorized by R12-15-151, effective June 30, 1994.

**4. REISSUE OF DRILLING AUTHORITY FOR VARIANCE REQUEST: (\$10.00 EACH WELL)**

**NOTE:** If extraordinary or unusual conditions exist, after the initial drilling authority has been issued, the well owner or well driller may request a variance from the provisions of R12-15-811.

WELL REGISTRATION NO. 55- \_\_\_\_\_ FILE NO: \_\_\_\_\_

**I/WE REQUEST THE FOLLOWING WELL DRILLING AUTHORITY BE REISSUED PER THE ATTACHED VARIANCE REQUEST:**

Signature of Well Owner/Well Driller \_\_\_\_\_ Date \_\_\_\_\_

## NAME: MAGMA COPPER CO

GRID: E 10

REPORT NO: WL9020

ARIZONA DEPARTMENT OF WATER RESOURCES WELL REPORT  
OPERATIONS DIVISION

PAGE 5,089

REPORT DATE: 1/31/96

\*\*\*\* WELLS SEQUENCED BY ALPHABETICAL ORDER \*\*\*\*

FULL-NAME	Q U A D	T O W N	R N G	S E C	Q T R 1 2 3	REG NO	WELL DEPTH	DEPTH CASED	CD AI SA EM	WATER LEVEL	PUMP (GPM)	WELL DRILL DATE	DRL LIC NO.	WTR USE	WS AH TE RD	L O R G T	C O R W N
MAGMA COPPER CO 14605 W HUNT HWY FLORENCE	AZ	85232	D	4.0	9.0	33 A B B	55-549174	0917	0910	05	0124	5/07/1995	360	M	15	X	N
MAGMA COPPER CO 14605 W HUNT HWY FLORENCE	AZ	85232	D	4.0	9.0	33 A B B	55-549175						360	M	15	I	N
MAGMA COPPER CO 14605 W HUNT HWY FLORENCE	AZ	85232	D	4.0	9.0	33 A B B	55-549176	0915	0846	06	0138	5/10/1995	360	M	U8	X	N
MAGMA COPPER CO 14605 W HUNT HWY FLORENCE	AZ	85232	D	4.0	9.0	33 A B B	55-549177						360	M	15	I	N
MAGMA COPPER CO 14605 W HUNT HWY FLORENCE	AZ	85232	D	4.0	9.0	33 B B A	55-549179						360	M	15	I	N
MAGMA COPPER CO 14605 W HUNT HWY FLORENCE	AZ	85232	D	4.0	9.0	33 B B A	55-549180	0740	0730	05	0152	6/15/1995	360	M	U8	X	N
MAGMA COPPER CO 14605 W HUNT HWY FLORENCE	AZ	85232	D	4.0	9.0	33 B B A	55-549181	1280	1242	06	0147	6/24/1995	360	D	U8	X	N
MAGMA COPPER CO 14605 W HUNT HWY FLORENCE	AZ	85232	D	4.0	9.0	33 B B A	55-549182						360	M	15	I	N
MAGMA COPPER CO PO BOX 100 MIAMI	AZ	85539	A	1.0	14.0	30 A C B	55-545978						109	M	07	I	N
MAGMA COPPER CO PO BOX 100 MIAMI	AZ	85539	A	1.0	14.0	19 D C D	55-545979						109	M	07	I	N
MAGMA COPPER CO 200 W DESERT SKY RD TUCSON	AZ	85704	D	8.0	18.0	10 D A A	55-514862		2519			7/29/1986	075	N	11	X	N

NA

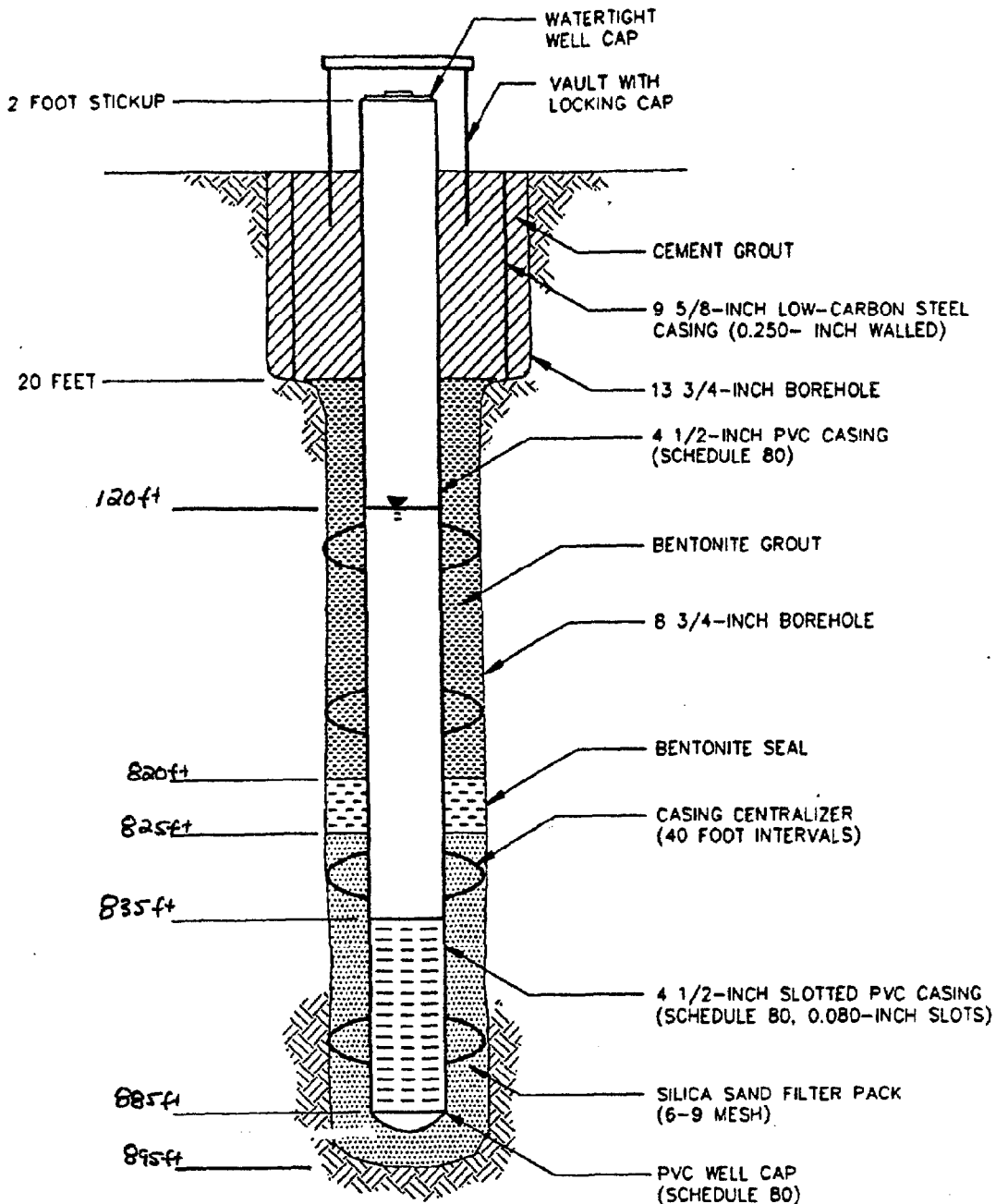
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MAR 31 1995

OPERATIONS DIV.



N.T.S.

**NOTES:**

1. PVC = POLYVINYL CHLORIDE
2. CASING DIMENSIONS ARE OUTSIDE DIAMETER

**WELL DESIGN**

MAR 31 1995

**BROWN AND CALDWELL**

## ARIZONA DEPARTMENT OF WATER RESOURCES

500 North Third Street, Phoenix, Arizona 85004  
Telephone (602) 417-2470  
Fax (602) 417-2401



FIFF SYMINGTON  
Governor

RITA P. PEARSON  
Director

April 12, 1995

Magma Copper Company  
14605 West Hunt Highway  
Florence, AZ 85232

RE: Registration No. 55-549179 thru 55-549182

File No. D(4-9)33BBA

Dear Well Owner:

Enclosed for your records is an annotated copy of the Notice of Intention to Drill a well. This is returned to you as evidence of compliance with A.R.S. §45-596. A drilling card has been mailed to your designated driller. Prior to drilling he must have it in his possession.

Since this well is being drilled as a Monitor well, or for Cathodic Protection, Grounding, Geotechnical or Piezometer purposes, our standard driller report form is also being furnished to the driller. He is required to complete it and return it to the Department within 30 days after the completion of the well. A Completion Report form is being furnished for monitor wells where pump installation is authorized. This must be completed within thirty days of installation as required by A.R.S. §45-600.

A Change of Well Information form is enclosed for your future use. If you deem it necessary to change the location of the proposed well, please notify the Department on the enclosed form. A properly amended Drilling Card will then be issued and must be in possession of the driller before drilling begins. During the drilling of a new well, if it is determined that it must be abandoned, then a Well Abandonment Completion Report must be submitted per R12-15-816.F.

Per A.R.S. §45-593, the person to whom a well is registered shall notify this Department of a change of ownership of the well and/or information pertaining to the physical characteristics of the well, in order to keep the well registration file current and accurate.

For additional information, you may contact the Operations Division at (602) 542-1581.

Sincerely,

Dorothy Boggs  
Groundwater Permit Specialist



# RECEIPT

18495

BROWN & CALDWELL  
3636 N. CENTRAL AVE., STE. 300  
PHOENIX, AZ 85012

MAGMA COPPER COMPANY

STATE OF ARIZONA  
DEPARTMENT OF WATER RESOURCES  
OPERATIONS DIVISION  
15 SOUTH 15TH AVENUE  
PHOENIX, ARIZONA 85007  
(602) 542-1581

ENTRY CODE 55

FILE NO. 55-549128

THRU

55-549182

ITEM DESCRIPTION	RATE	AMOUNT
FILING FEE FOR NOI TO DRILL A WELL	10.00	550.00
REG. NO. 55-549128 THRU 55-549182		
FILE NO. VARIOUS		

**PAID**

CHECK NO. 7548 FEE ACCOUNT NO. \_\_\_\_\_ TOTAL \$ 550.00

CHIT NO. \_\_\_\_\_ RECEIVED BY DB DATE 04-12-95

**ARIZONA DEPARTMENT OF WATER RESOURCES  
OPERATIONS DIVISION**

500 North Third Street  
Phoenix, Arizona 85004-3903  
Phone (602) 417-2470

**DUPLICATE**

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILL OPERATIONS

WELL REGISTRATION NO. 55-549179 THRU 55-549182

AUTHORIZED DRILLER: BOYLES BROTHERS DRILLING LICENSE NO. 28

NOTICE OF INTENTION TO DRILL A MONITOR WELL HAS BEEN FILED WITH THE DEPARTMENT BY:

Owner of Well(s)

MAGMA COPPER COMPANY

14605 WEST HUNT HIGHWAY

FLORENCE

AZ 85232

The well(s) is/are to be located in:

NE 1/4 NW 1/4 NW 1/4  
10 acre 40 acre 160 acre

Section 33 Township 4.0 SOUTH

Range 9.0 EAST

NUMBER OF WELLS IN PROJECT: 4



THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON MAR 30TH, 1996

THE DRILLER SHALL FILE A LOG OF THE WELL WITHIN 30 DAYS OF  
COMPLETION OF DRILLING.

**CHIEF, OPERATIONS DIVISION**

# ARIZONA DEPARTMENT OF WATER RESOURCES

Operations Division, 500 North Third Street  
Phoenix, Arizona 85004 Telephone (602) 417-2470

## 3. REQUEST TO CHANGE WELL DRILLER \$10.00 FEE REQUIRED FOR EACH WELL

This request must be received by this Department and the Drill Card issued to the new drilling firm PRIOR to the drilling or completion of any well.

Well Registration No. 55- 549179 File No. DC4-9)3366a

BOYLES BROTHERS DRILLING  
Original Well Driller

ARIZONA BEEMAN DRILLING LLC.  
New Well Driller

6527 W. NORTHVIEW AVE.  
Mailing Address GLENDALF, AZ 85301

P.O. Box 3370 APACHE JUNCTION, AZ. 85217  
Mailing Address

28  
ADWR License Number

360  
ADWR License Number

CLASS A-04 - 076 - 386 - 002  
R.O.C. License Number

CLASS A-04 - 102429  
R.O.C. License Number

JOHN T. KLINE  
Typed or Printed Name of Well Owner

*John T. Kline* 5/31/95  
Signature of Well Owner Date

The fee charge for well ownership and reissue of drill card is authorized by R12-15-151, effective June 30, 1994.

DWR-55-71-8/94(Rev)

ENTERED JUN 20 1995

JUN 6 1995

049-0

# ARIZONA DEPARTMENT OF WATER RESOURCES

Operations Division, 500 North Third Street  
Phoenix, Arizona 85004 Telephone (602) 417-2470

## REQUEST FORM TO CHANGE WELL INFORMATION OWNERSHIP \* DRILLER

Please complete the appropriate section of this request form and return to the above address with applicable fee. **NOTE:** A.R.S. §45-593.C. requires that the Department be notified of change of well ownership and that the new owner is required to keep the Department's Well Registration records current and accurate. Well data and ownership changes must be submitted within thirty (30) days after changes take place.

**SAVE THIS FORM TO REPORT FUTURE CHANGES IN OWNERSHIP, CHANGES IN ADDRESS, OR CHANGE IN WELL DATA SUCH AS PUMP CAPACITY, CORRECTION OF LEGAL DESCRIPTION, CHANGE OF WELL DRILLER AND AMENDING INFORMATION PREVIOUSLY FILED.**

### 1. CHANGE OF WELL INFORMATION

NO FEE REQUIRED

**NOTE:** If the location of the proposed well changes after drilling authority has been issued, attach a \$10.00 reissue fee for each well.

Well Registration No. 55-\_\_\_\_\_ File No. \_\_\_\_\_ (If known)

I/We request the following well information be changed: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Date \_\_\_\_\_ Signature of Current Well Owner \_\_\_\_\_

### 2. STATEMENT OF CHANGE OF WELL OWNERSHIP

\$10.00 FEE REQUIRED

If this change consists of more than one well and the names are common: attach a \$10.00 fee. Otherwise, each well requires a separate \$10.00.

I, \_\_\_\_\_, state that I am the Previous/New Owner of the well described below:

\_\_\_\_\_  $\frac{1}{4}$  \_\_\_\_\_  $\frac{1}{4}$  \_\_\_\_\_  $\frac{1}{4}$ ; Section \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_  
10 acre 40 acre 160 acre

Well Registration No. 55-\_\_\_\_\_ File No. \_\_\_\_\_ (If known)

PRINT Previous Owner's Name \_\_\_\_\_

PRINT New Owner's Name \_\_\_\_\_

Mailing Address \_\_\_\_\_

Mailing Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Telephone \_\_\_\_\_

Telephone \_\_\_\_\_

Date \_\_\_\_\_ Signature of Previous/New Well Owner \_\_\_\_\_

DWR-55-71-8/94(Rev)

**ARIZONA DEPARTMENT OF WATER RESOURCES  
OPERATIONS DIVISION**

500 North Third Street  
Phoenix, Arizona 85004-3903  
Phone (602) 417-2470

**REISSUE**

**DUPLICATE**

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILL OPERATIONS

WELL REGISTRATION NO. 55-549178 THRU 55-549182

AUTHORIZED DRILLER: AZ BEEMAN DRILLING

LICENSE NO. 360

NOTICE OF INTENTION TO DRILL A MONITOR WELL HAS BEEN FILED WITH THE DEPARTMENT BY:

Owner of Well(s)

MAGMA COPPER COMPANY

14605 WEST HUNT HIGHWAY

FLORENCE

AZ 85232

The well(s) is/are to be located in:

NE 1/4 NW 1/4 NW 1/4  
10 acre 40 acre 160 acre

Section 33 Township 4.0 SOUTH

Range 9.0 EAST

NUMBER OF WELLS IN PROJECT: 5

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON MAR 30TH, 1996

THE DRILLER SHALL FILE A LOG OF THE WELL WITHIN 30 DAYS OF  
COMPLETION OF DRILLING.



**CHIEF, OPERATIONS DIVISION**